IMAGE
CORPORATION

COLORIZER
CAESAR
(INCL. EDGER)

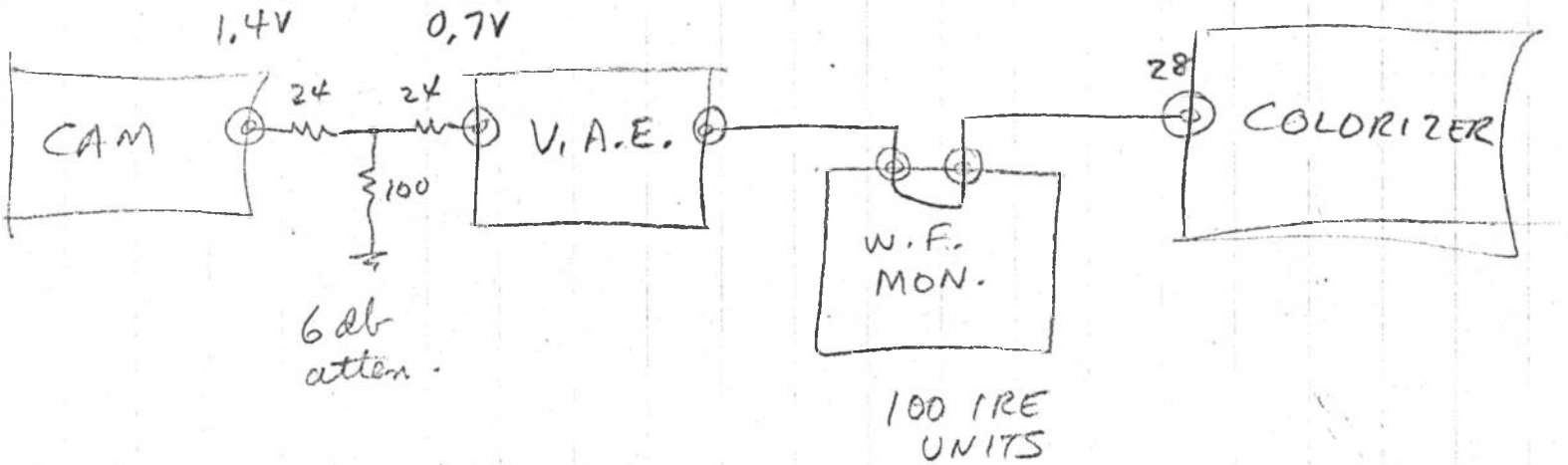
ALTEMUS

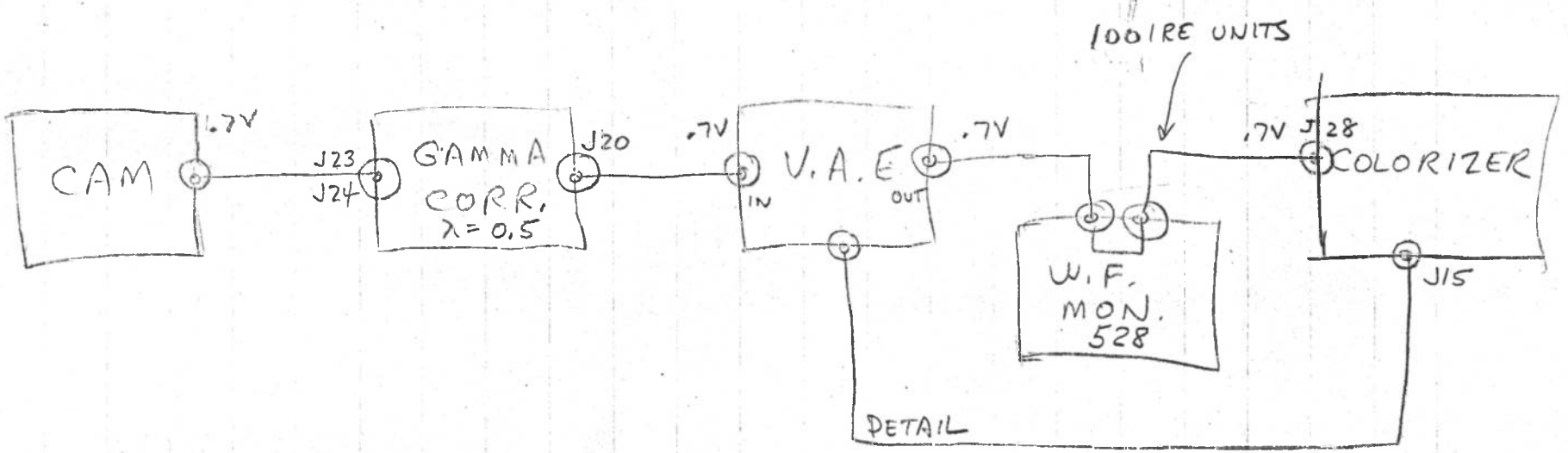
COMPUTER
IMAGE
CORPORATION

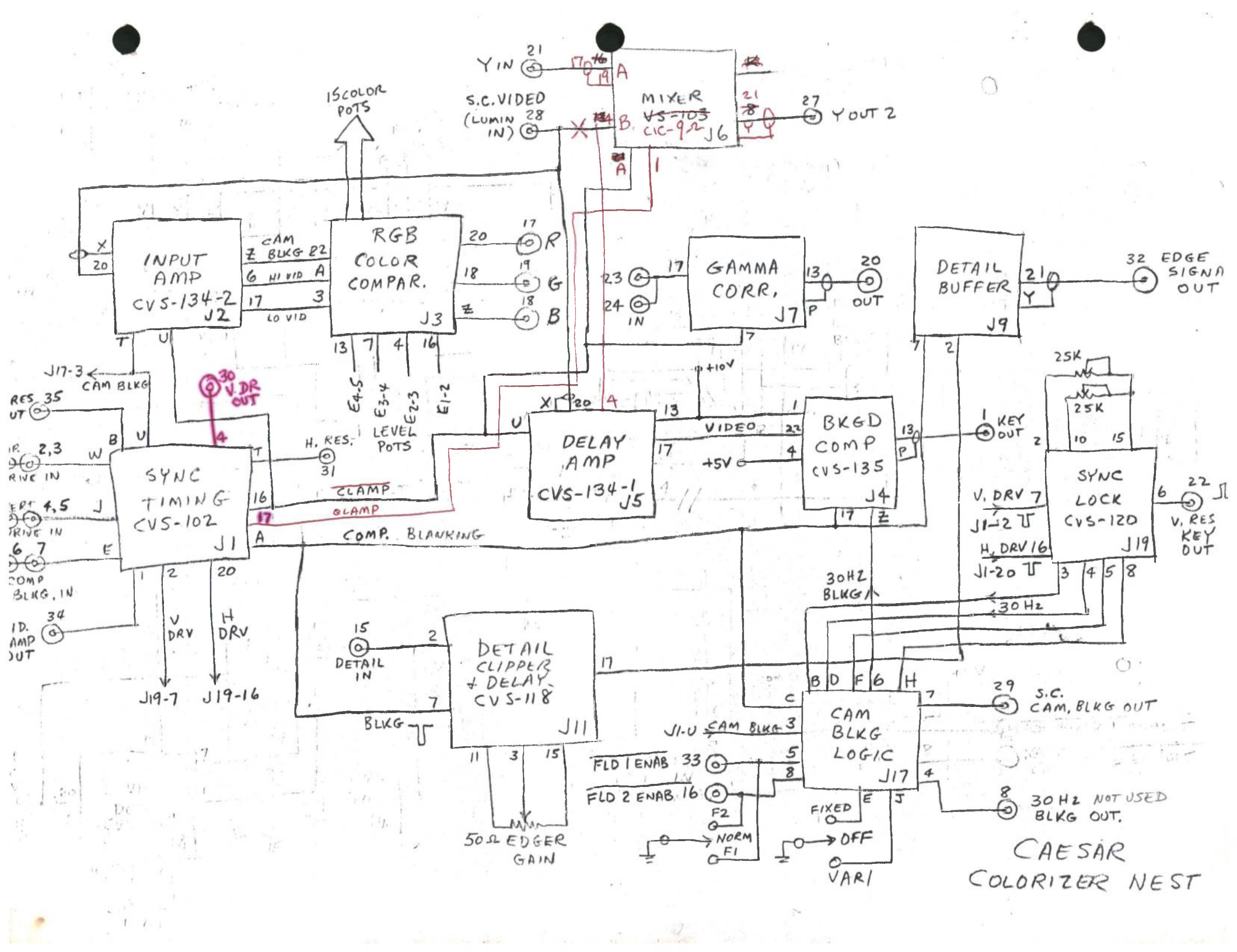
COLORIZER
CAESAR

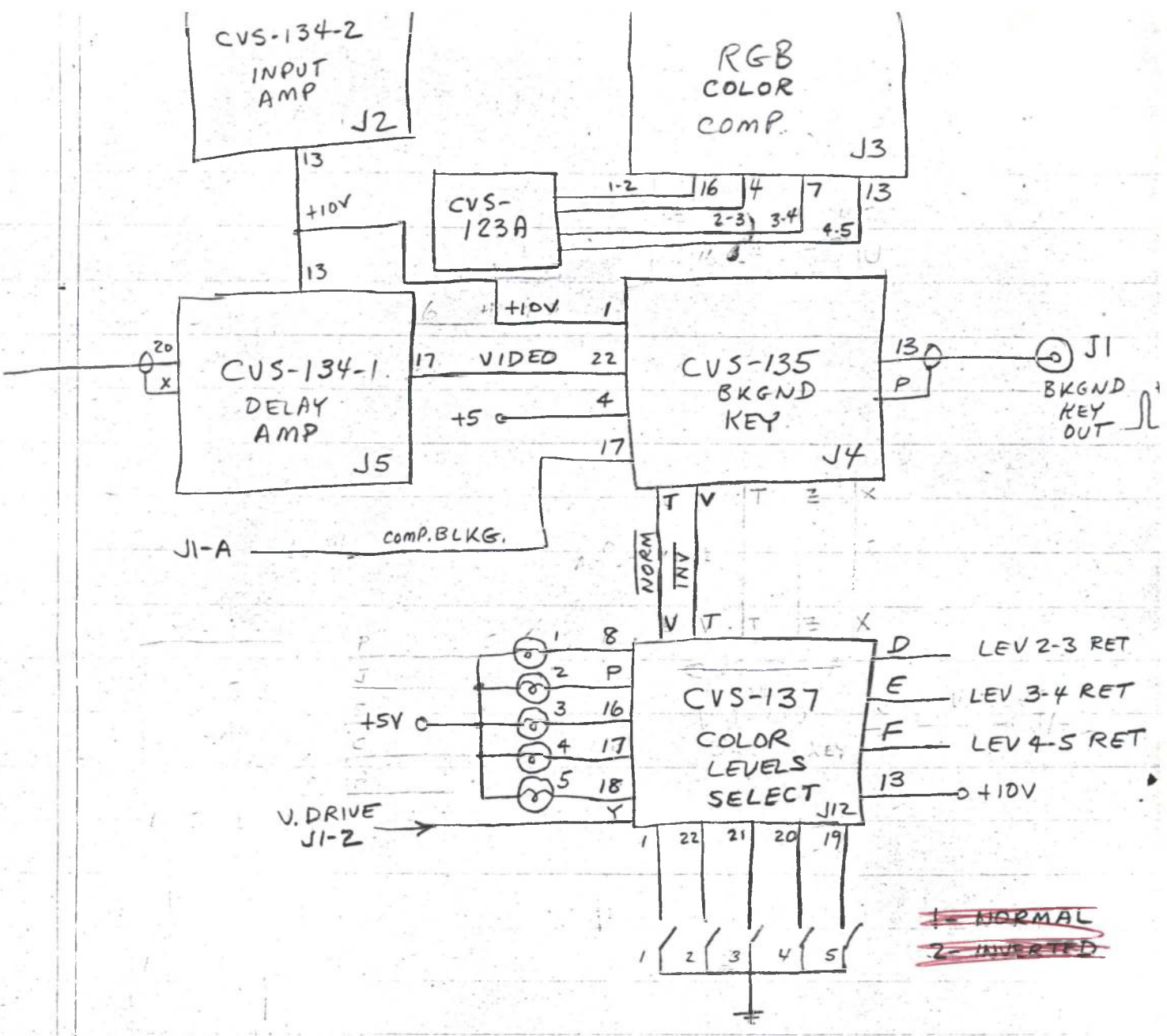
(INCL. EDGER)

ALTEMUS

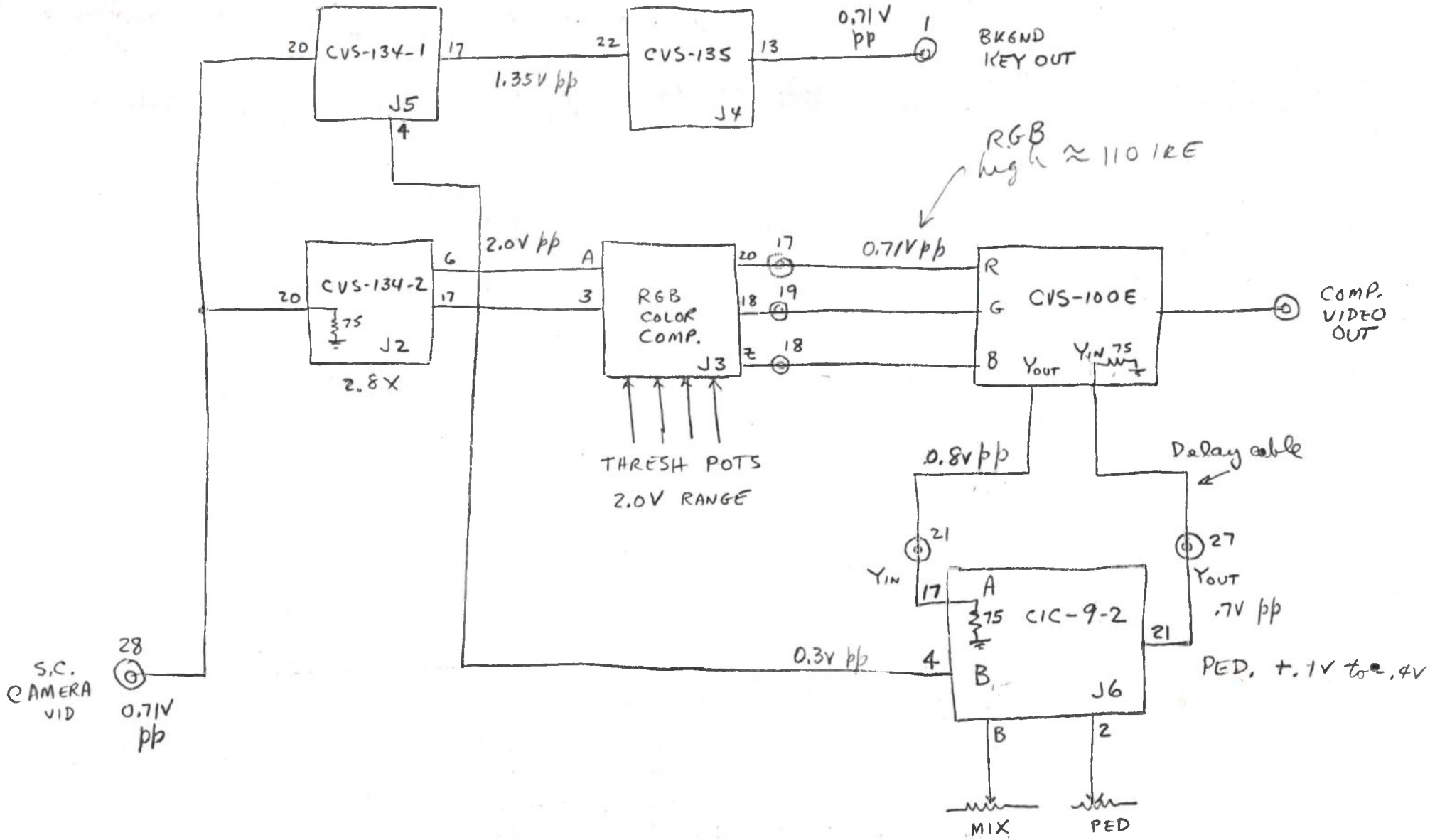

1.4V
0.7V
CAM
2K
2K
100
V.I.A.E.
W.F.
MON.
28
COLORIZER
6 db
atten.
100 IRE
UNITS


100 IRE UNITS
CAM
1.7V
J23
J24
GAMMA
CORR.
λ=0.5
J20
.7V
V.I.A.E
IN
OUT
.7V
W.F.
MON.
528
.7V
J28
COLORIZER
J15
DETAIL

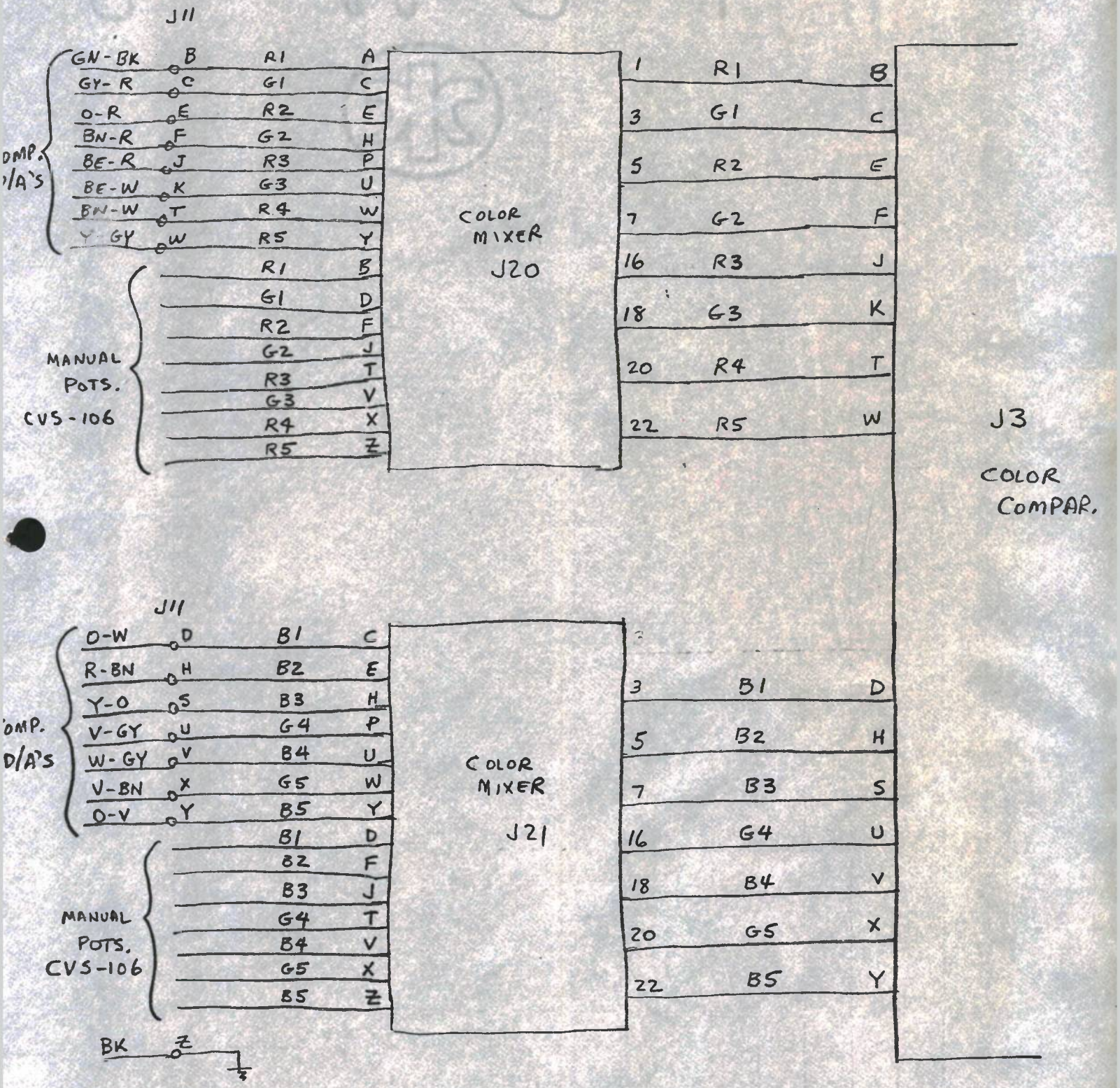

Y IN
21
MIXER
VS-105
CIC-92
J6
S.C. VIDEO (LUMIN IN)
28
Y OUT 2
27
15 COLOR POTS
INPUT AMP CVS-134-2 J2
CAM BLKG
HI VID
LO VID
RGB COLOR COMPAR. J3
R
G
B
GAMMA CORR. J7
IN
OUT
DETAIL BUFFER J9
EDGE SIGNA OUT
J17-3 CAM BLKG
30 V. DR OUT
RES OUT 35
H. RES. 31
E4-5
E3-4
E2-3
E1-2
LEVEL POTS
+10V
DELAY AMP CVS-134-1 J5
VIDEO
+5V
BKGD COMP CVS-135 J4
KEY OUT
25K
SYNC TIMING CVS-102 J1
CLAMP
BLANKING
COMP.
V. DRV 7
J1-2
H. DRV 16
J1-20
SYNC LOCK CVS-120 J19
V. RES KEY OUT
30HZ BLKG
30 Hz
DRIVE IN
COMP BLKG. IN
ID. AMP OUT
V DRV
H DRV
J19-7
J19-16
DETAIL IN
DETAIL CLIPPER + DELAY CVS-118 J11
BLKG
50Ω EDGER GAIN
CAM BLKG LOGIC J17
J1-U CAM BLKG
FLD 1 ENAB 33
FLD 2 ENAB 16
F2
NORM
F1
FIXED
OFF
VARI
S.C. CAM. BLKG OUT
30 Hz NOT USED
BLKG OUT.
CAESAR
COLORIZER NEST



CAESAR
COLORIZER

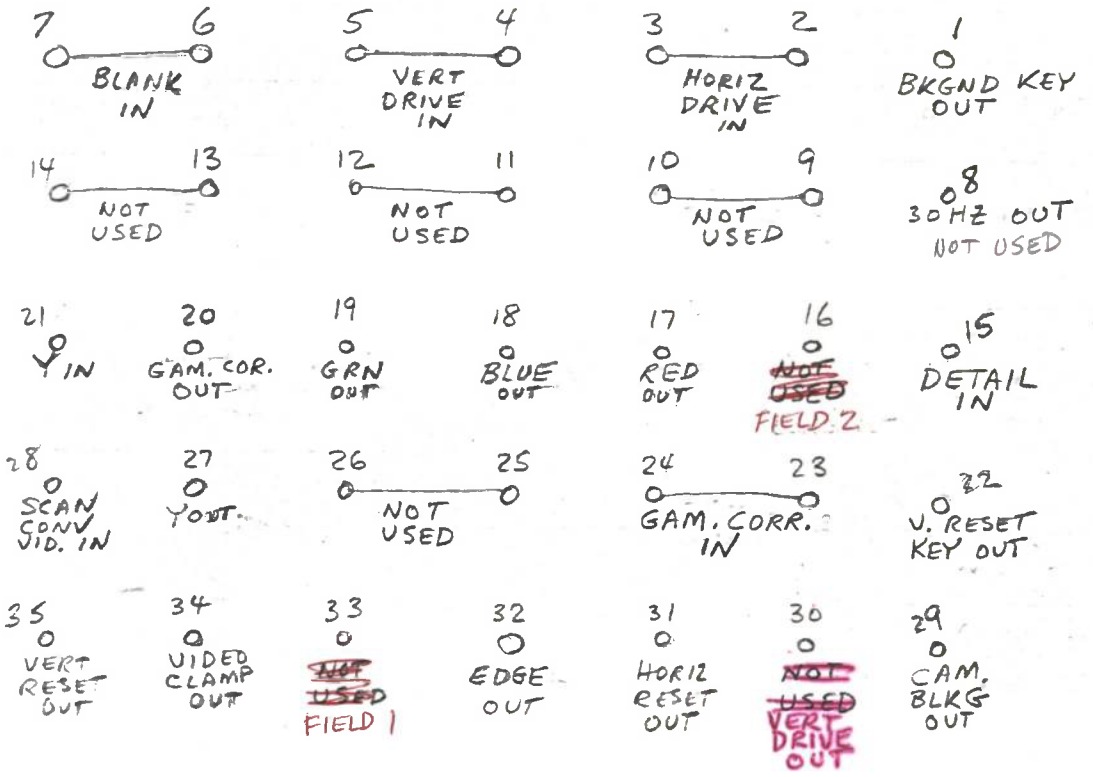


CAESAR
COLORIZER



CAESAR
COLOR CONTROLLER

TOP

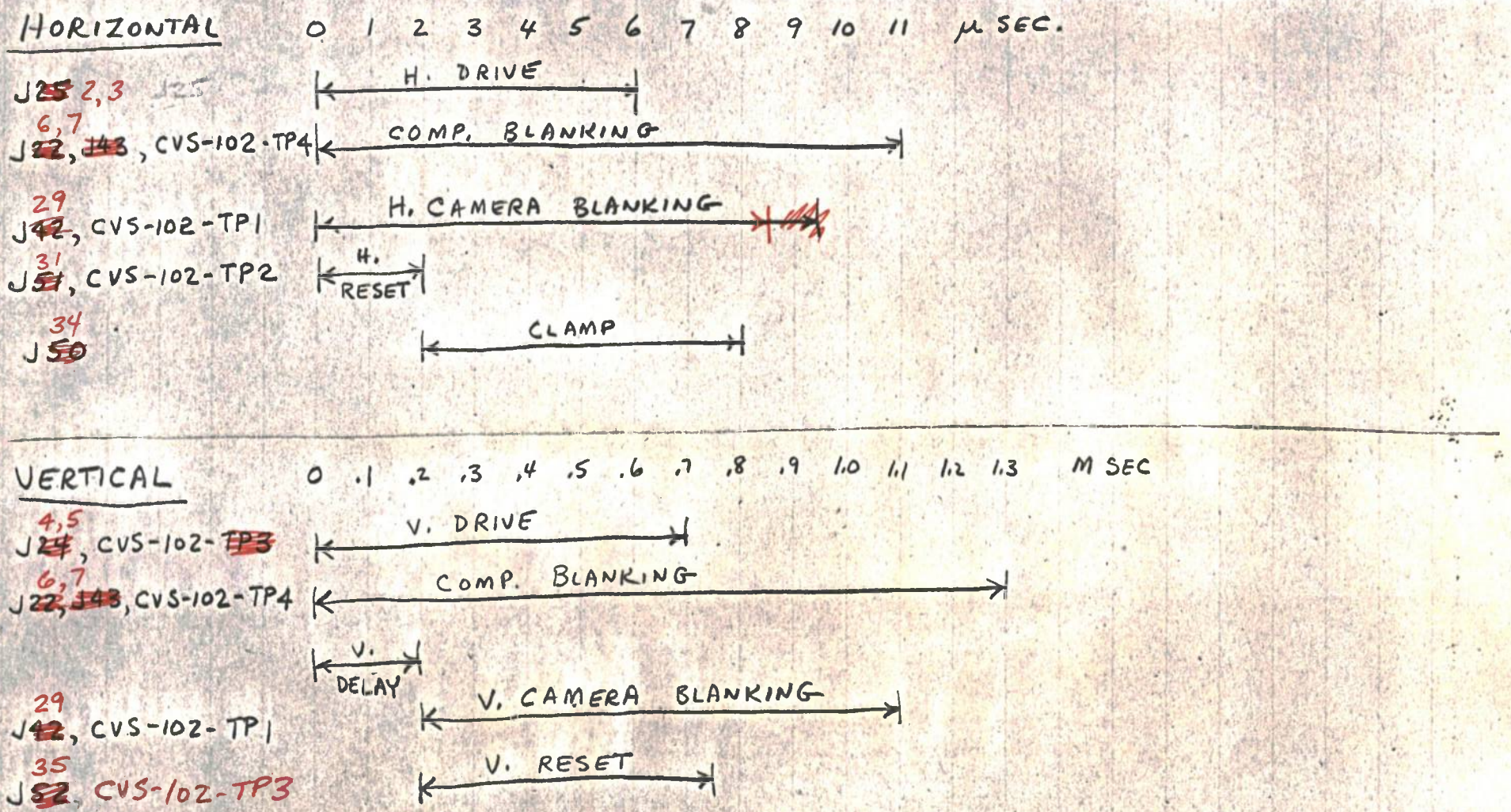


Caesar Colorizer Nest BNC's

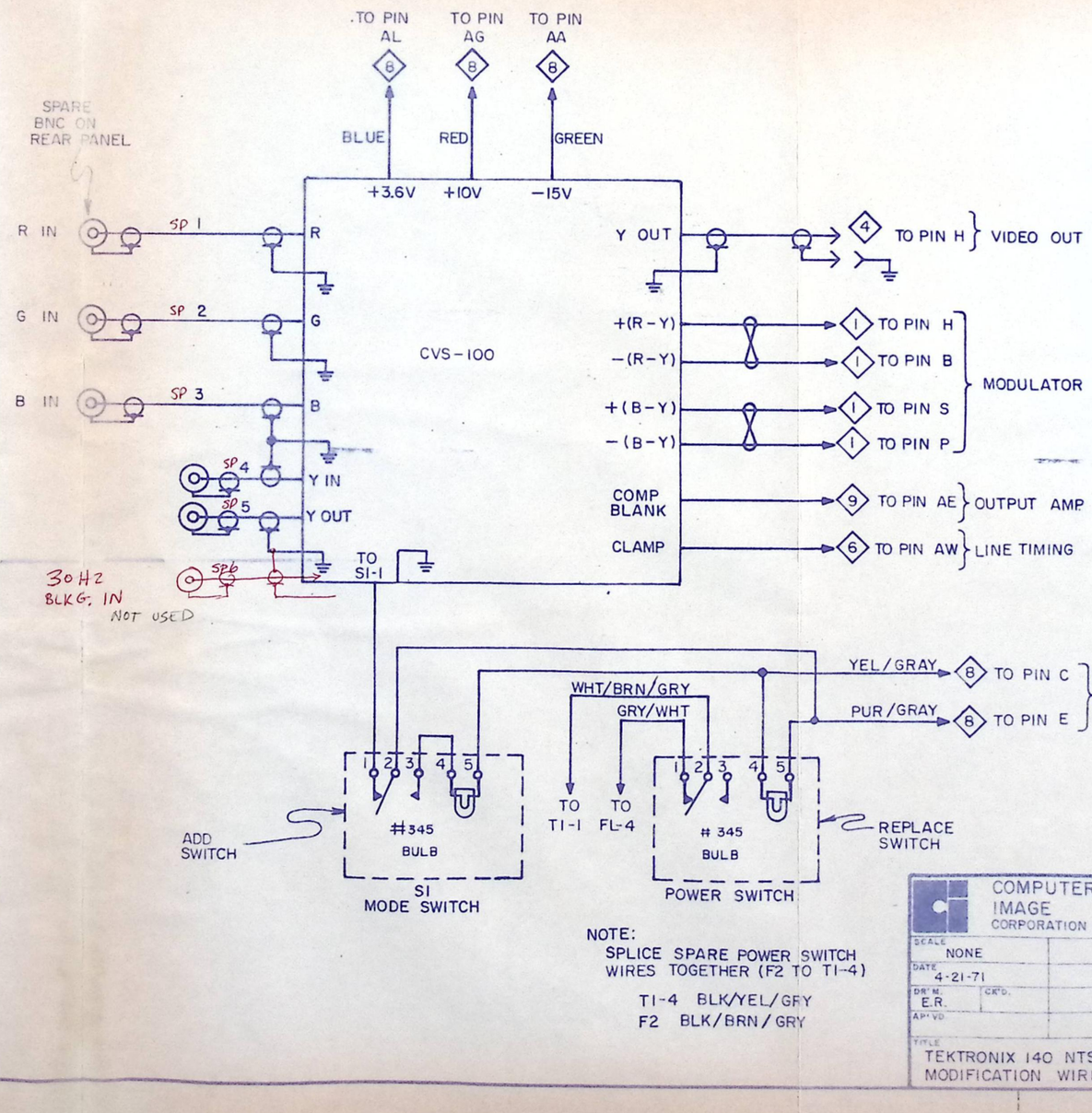
- View from wiring side of back plate.

CAESAR

SCAN CONVERTER & COLOR CONTROLLER TIMING



2-27-78



NOTE:
SPLICE SPARE POWER SWITCH
WIRES TOGETHER (F2 TO TI-4)

TI-4 BLK/YEL/GRY
F2 BLK/BRN/GRY

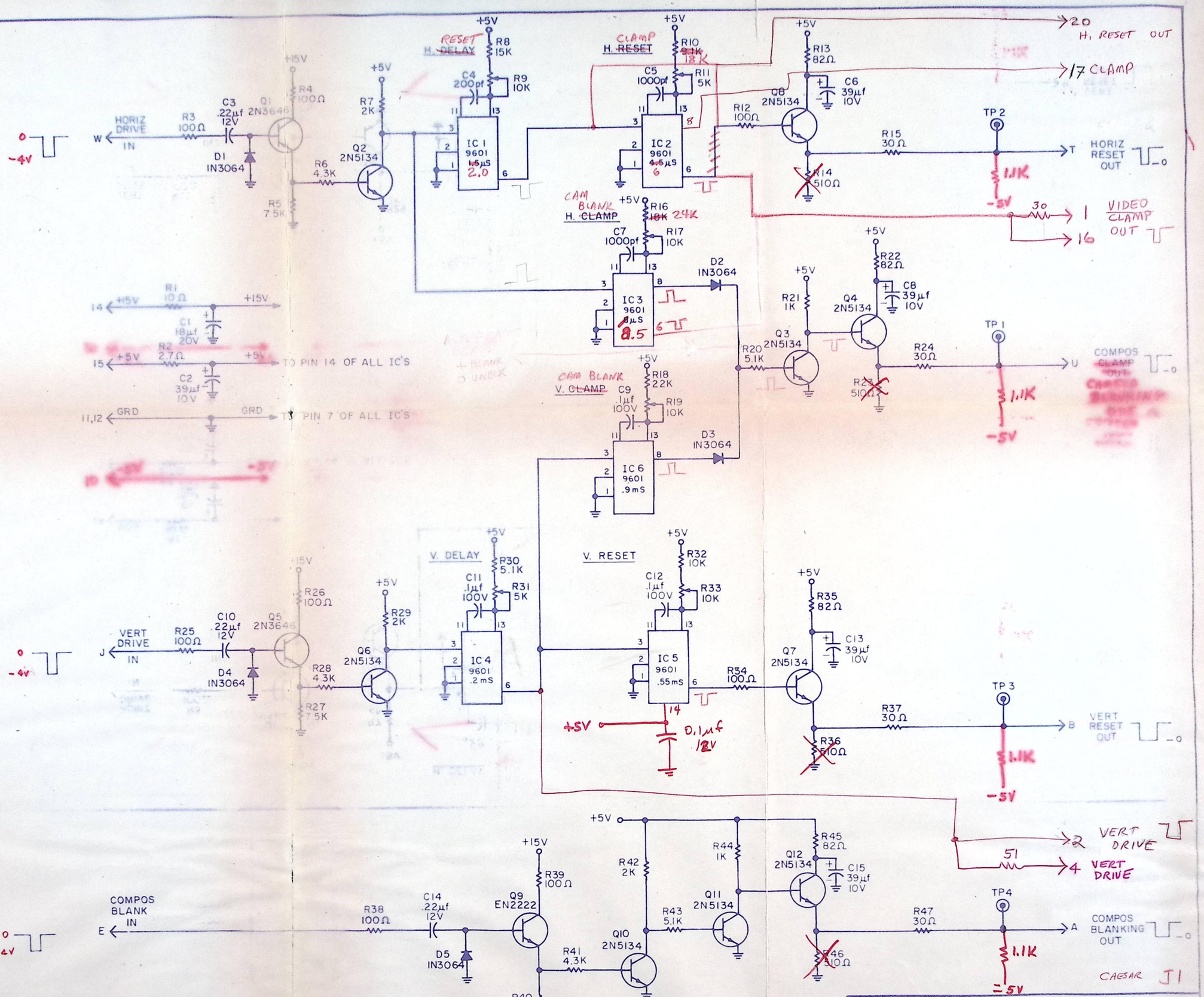
COMPUTER IMAGE CORPORATION
2475 W. 2nd. AVE.
DENVER, COLORADO 80223

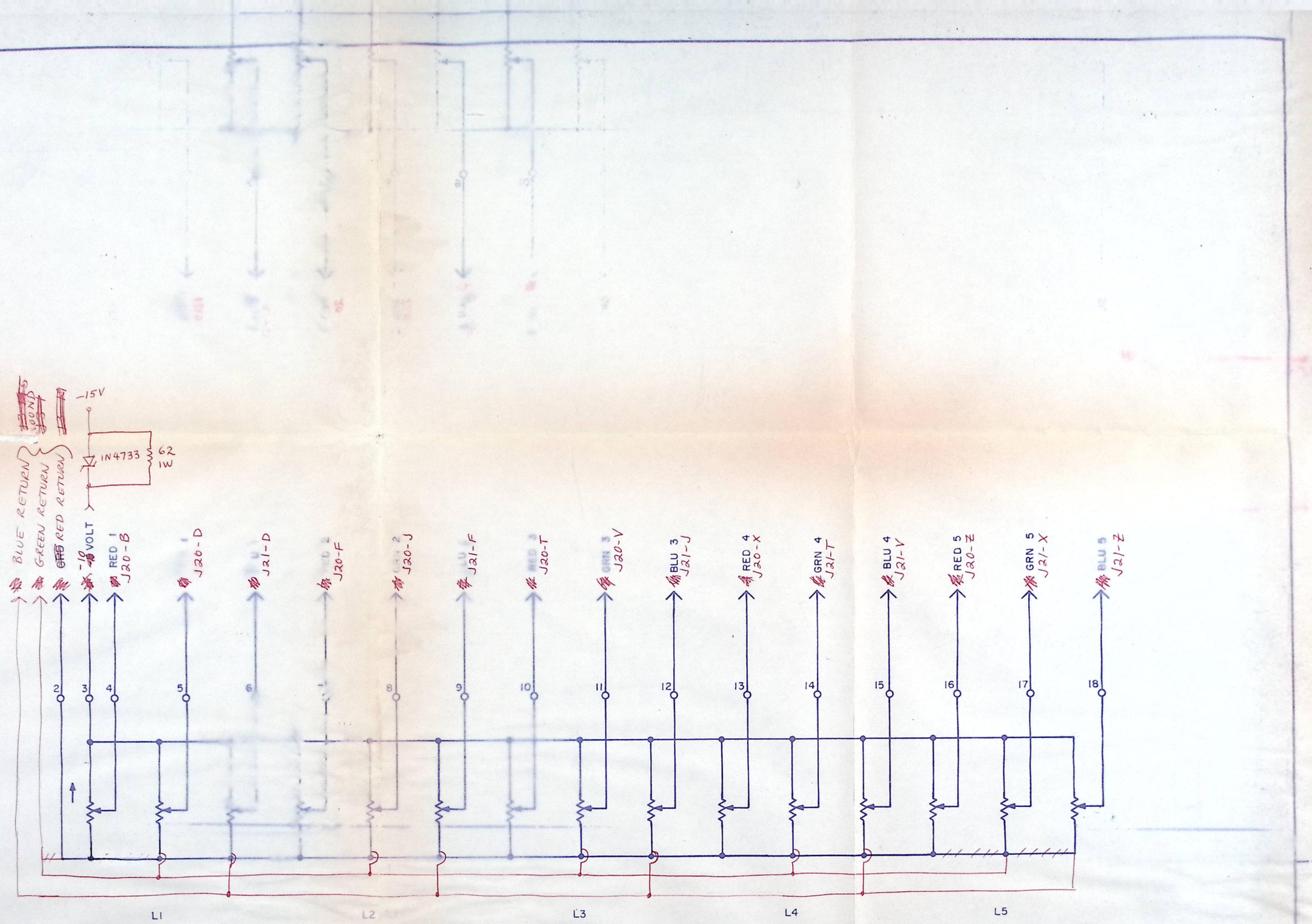
SCALE	NONE	REVISION	BY	DATE
DATE	4-21-71			
DR'M. E.R.	CK'D.			
APP'VD.				

TITLE: TEKTRONIX 140 NTSC SIGNAL GEN. MODIFICATION WIRING DIAGRAM

NO. CVSW-104

CAESAR


HORIZ DRIVE IN
R3 100Ω
C3 .22µf 12V
Q1 2N3646
D1 IN3064
R4 100Ω
R5 7.5K
R6 4.3K
R7 2K
Q2 2N5134
RESET H. DELAY
R8 15K
C4 200pf
R9 10K
IC 1 9601 1.5µS 2.0
CLAMP H. RESET
R10 18K
C5 1000pf
R11 5K
IC 2 9601 4.5µS 6
R12 100Ω
Q8 2N5134
R13 82Ω
C6 39µf 10V
R14 510Ω
R15 30Ω
TP 2
1.1K
-5V
20 H, RESET OUT
17 CLAMP
T HORIZ RESET OUT
30
1 VIDEO CLAMP OUT
16
CAM BLANK H. CLAMP
R16 24K
C7 1000pf
R17 10K
IC 3 9601 8µS 8.5
D2 IN3064
R1 10Ω
C1 18µf 20V
R2 2.7Ω
C2 39µf 10V
14 +15V
15 +5V
11,12 GRD
TO PIN 14 OF ALL IC'S
TO PIN 7 OF ALL IC'S
10 -5V
Q3 2N5134
R20 5.1K
R21 1K
Q4 2N5134
R22 82Ω
C8 39µf 10V
R23 510Ω
R24 30Ω
TP 1
1.1K
-5V
U COMPOS CLAMP OUT
CAM BLANK V. CLAMP
R18 22K
C9 .1µf 100V
R19 10K
IC 6 9601 .9mS
D3 IN3064
V. DELAY
R30 5.1K
C11 .1µf 100V
R31 5K
IC 4 9601 .2 mS
R26 100Ω
Q5 2N3646
R25 100Ω
C10 .22µf 12V
D4 IN3064
R27 7.5K
R28 4.3K
Q6 2N5134
R29 2K
V. RESET
R32 10K
C12 .1µf 100V
R33 10K
IC 5 9601 .55mS
R34 100Ω
+5V
14
0.1µf 12V
Q7 2N5134
R35 82Ω
C13 39µf 10V
R36 510Ω
R37 30Ω
TP 3
1.1K
-5V
B VERT RESET OUT
2 VERT DRIVE
51
4 VERT DRIVE
COMPOS BLANK IN
R38 100Ω
C14 .22µf 12V
D5 IN3064
Q9 EN2222
R39 100Ω
R40 7.5K
R41 4.3K
Q10 2N5134
R42 2K
R43 5.1K
Q11 2N5134
R44 1K
Q12 2N5134
R45 82Ω
C15 39µf 10V
R46 510Ω
R47 30Ω
TP4
1.1K
-5V
A COMPOS BLANKING OUT
CAESAR J1
COMPUTER IMAGE CORPORATION
2475 W. 2nd AVE. DENVER, COLORADO 80223
SCALE NONE
DATE 2-26-71
DR'N E.R
CK'D
APP'VD
TITLE SYNC TIMING COLORIZER CAESAR
NO CVS-102



ALL POTS 1K LINEAR CTS-480

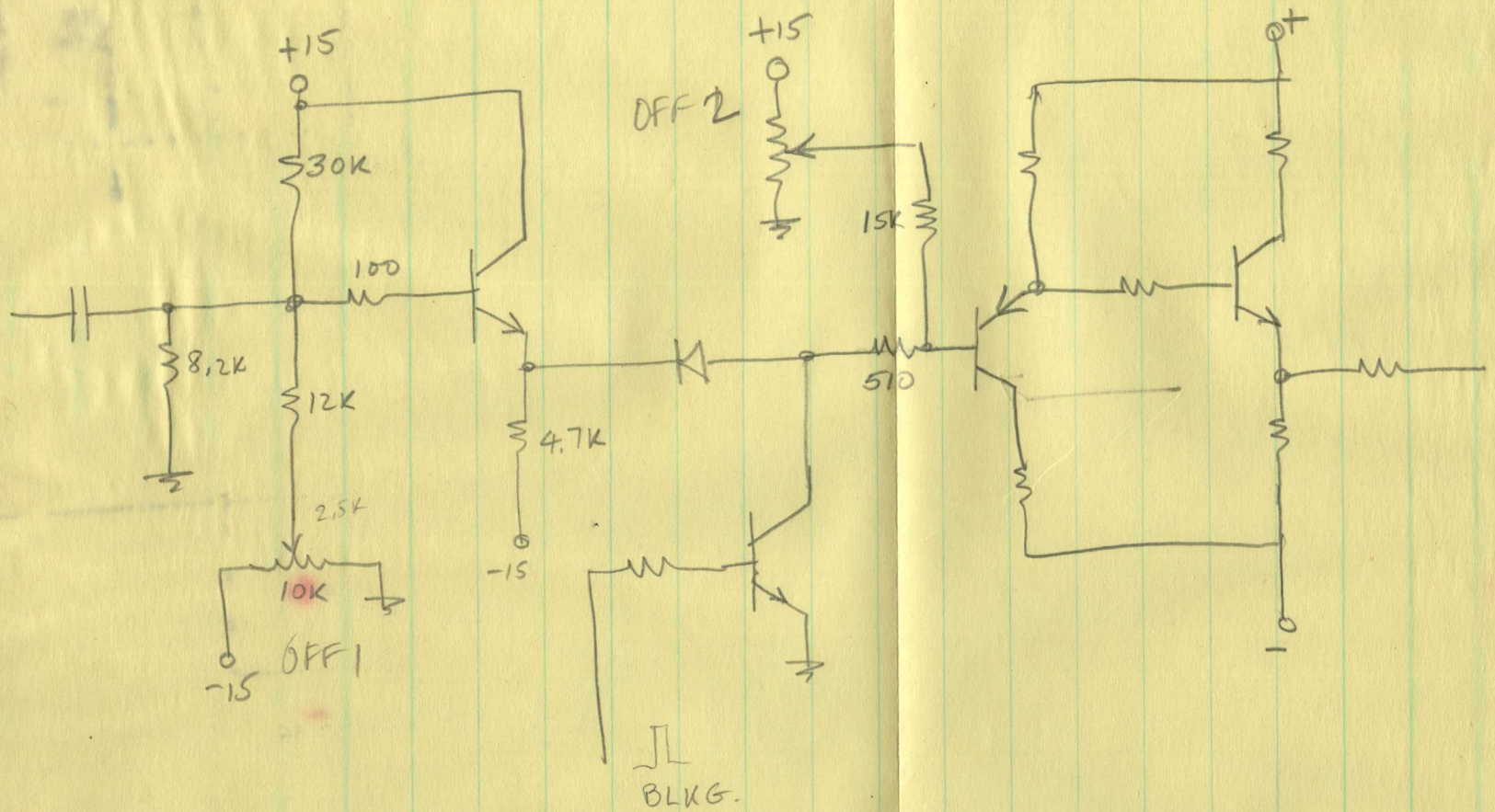
CAESAR

COMPUTER IMAGE CORPORATION
2475 W. 2nd. AVE.
DENVER, COLORADO 80223.

SCALE	REVISION	BY	DATE
NONE	REV	R.K.P	12/6-71
DATE 3-11-71			
DWN. E.R. CK'D.			
APP'VD.			

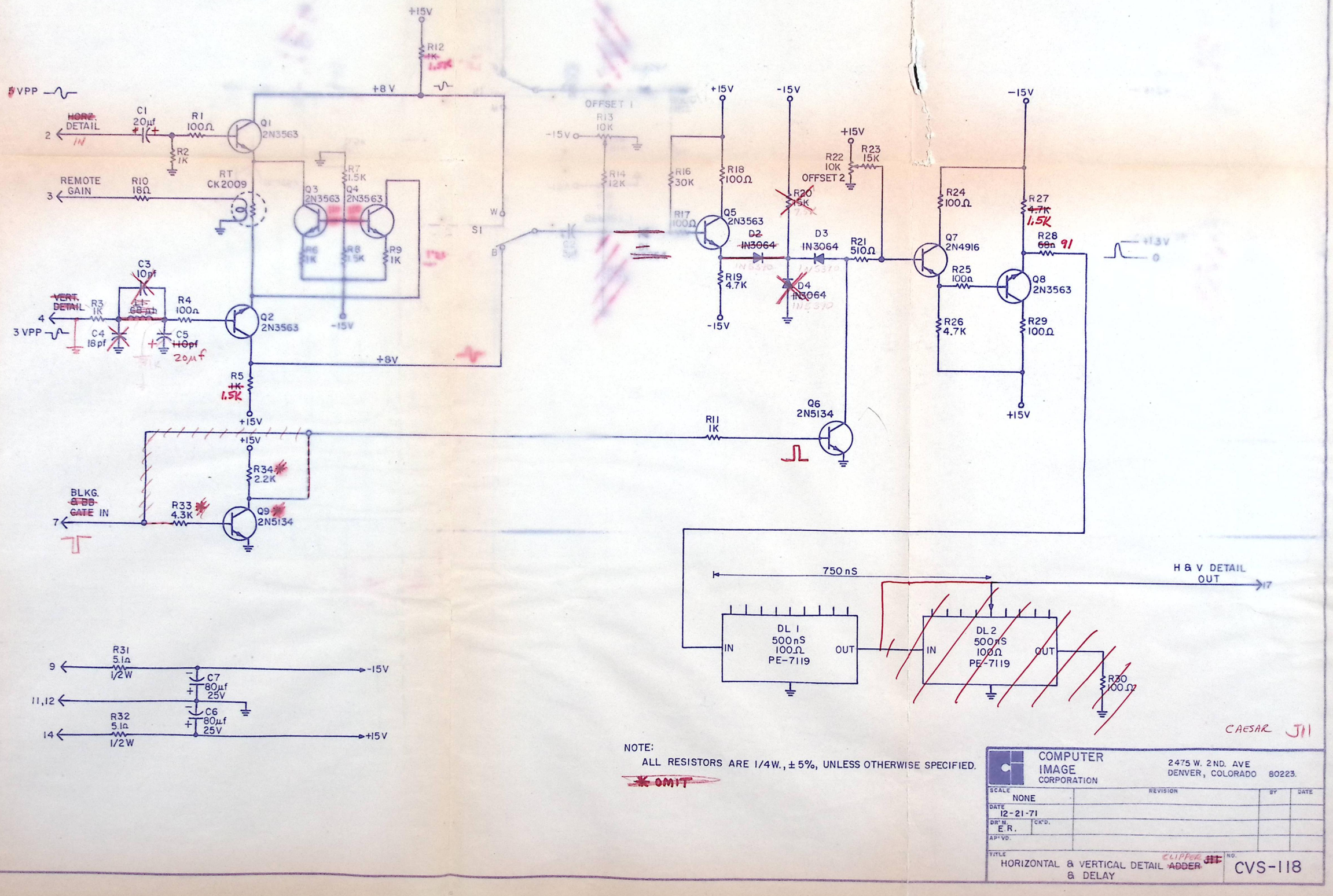
TITLE: COLOR CONTROLS
COLOR CONTROLLER

NO. CVS-106B



J11

CV5-118

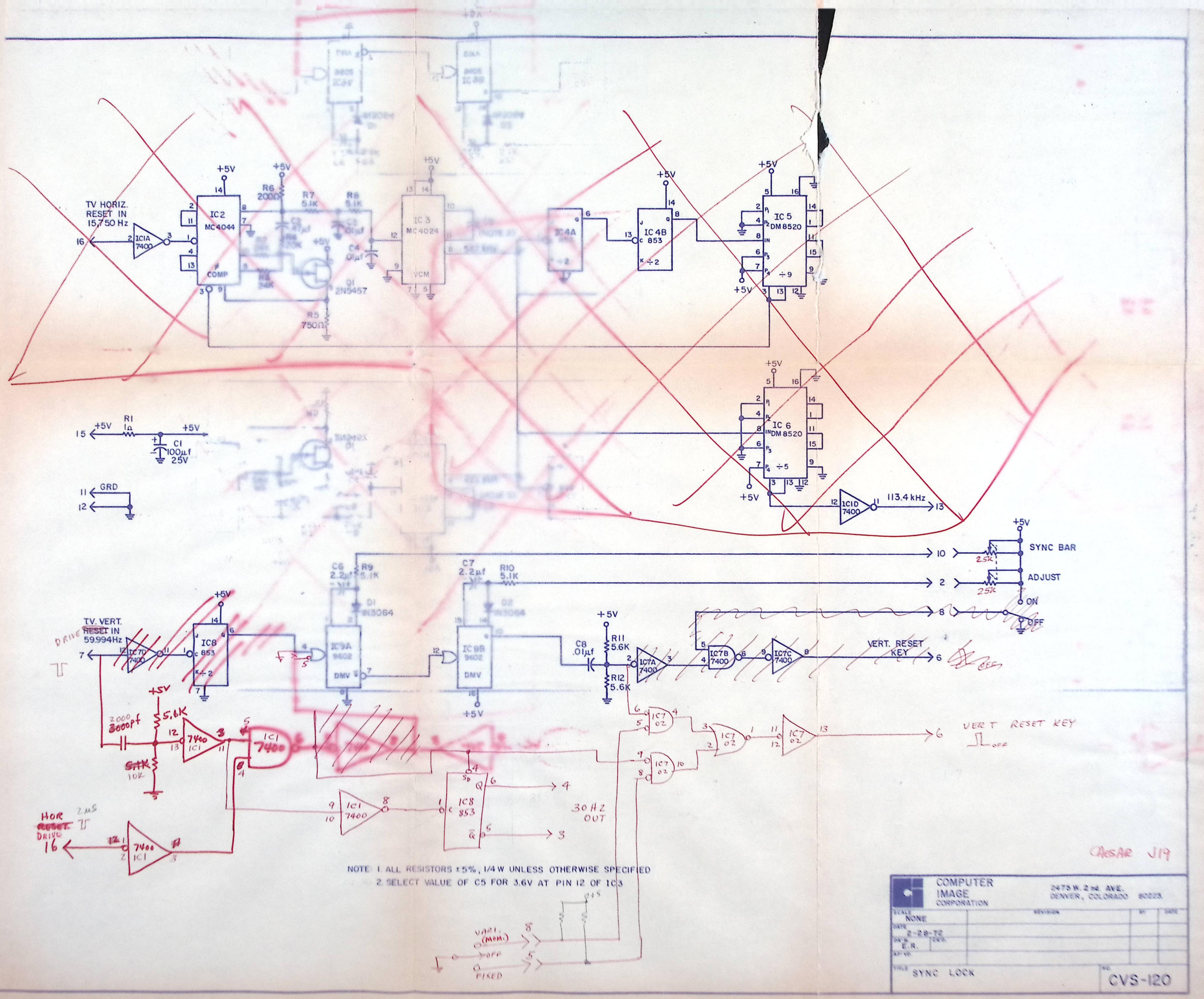


CAESAR J11

NOTE:
ALL RESISTORS ARE 1/4W., ± 5%, UNLESS OTHERWISE SPECIFIED.

* OMIT

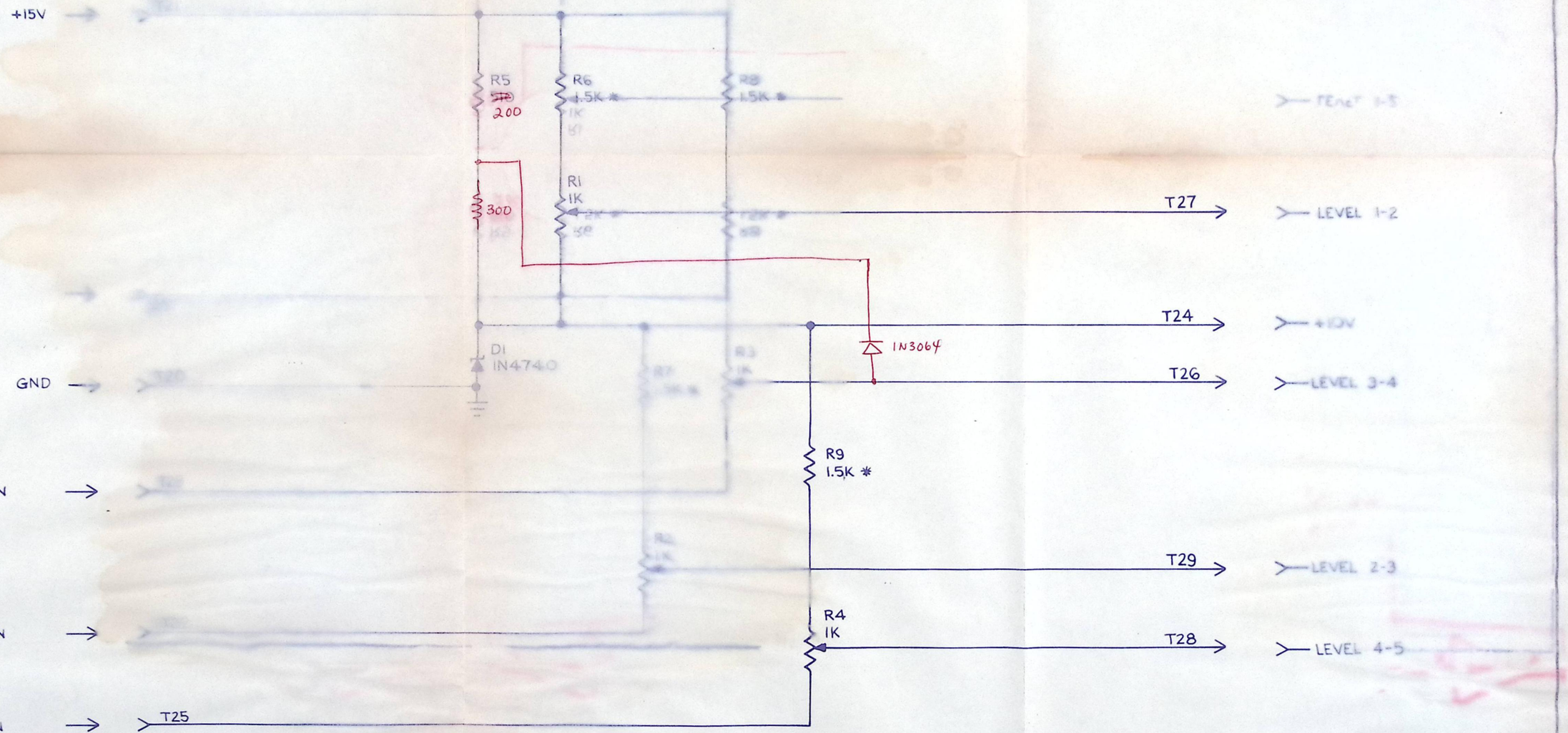
COMPUTER IMAGE CORPORATION	2475 W. 2ND. AVE DENVER, COLORADO 80223.		
SCALE NONE	REVISION	BY	DATE
DATE 12-21-71			
DR'N. E.R. CK'D.			
AP'VD.			
TITLE HORIZONTAL & VERTICAL DETAIL ADDER CLIPPER III & DELAY		NO. CVS-118	



NOTE 1. ALL RESISTORS ±5%, 1/4 W UNLESS OTHERWISE SPECIFIED
2. SELECT VALUE OF C5 FOR 3.6V AT PIN 12 OF IC3

AESAR J19

COMPUTER IMAGE CORPORATION		2473 W. 2nd AVE. DENVER, COLORADO 80223	
SCALE NONE	REVISION	BY	DATE
DATE 2-28-72			
DR'N E.R. CHK'D			
APP'D			
TITLE SYNC LOCK		NO. CVS-120	



* NOMINAL VALUE - SELECT FOR 2.0 ± 0.1V ACROSS POTS

COMPUTER IMAGE CORPORATION	2475 W. 2nd AVE DENVER, COLORADO 80223		
SCALE NONE	REVISIONS	BY	DATE
DATE 5-2-80			
DR'N HPD CK'D			
AP'VD			
TITLE LEVEL ADJUST		NO CVS-123B	

"NOTES"
ALL RESISTORS ... UNLESS OTHERWISE SPECIFIED.

DELAYED
~~VIDEO~~ VIDEO TO MIXER

KEY DELAY
TAP 4

R2 2.4K
R1 100
2N
Q1
20
X
R7 91
IN
FE
PE7118
OUT
R8 100
400
+5V
R24 330K
R25
1/2 IC3 CA 3046
R29 47
DELAYED HIGH VIDEO OUT
2N5134
Q3
R23 10K
C9 .01
+10V
13
R20 100
C6 .01
R16 100
Trim for overall gain of 2.0X
130
-5V
R9 2.7
15
C1 100/40V
11,12
R10 2.7
10
R11 2.7
14
C4 100/40V
13
+10V
R32 680K
C10 .22
R33 100
2
1/2 IC
CA 3
DELAYED LOW VIDEO OUT
CLAMP
C11 .01
R30 1.5K
2N5134
Q4
R34 1.3K
R31 10K
+5V
15
C12 .01

CAESAR 15

COMPUTER IMAGE

SCALE NONE	REVISIONS	BY
DATE 11/1/73		
DRN R.K.P. CHKD		
APP'D		
TITLE DELAY AMP		DWG CVS-134-1

ALL RESISTORS ARE 1/4 W ± 5% UNLE

VIDEO IN 20 — JUMPER

+.7 0

+4.2
+2.2

+3.5
+1.5

Trim for overall gain of 2.8X → 300

X

15 — R9 2.7 — C1 100/40V

11,12 — 100/40

10 — R10 2.7

14 — R11 2.7 — C4 100/40V — C14 .01

13 — +10V

CAM.

R15 100

R20 100

C6 .01

R27 100

8

R25 100 — 6

1/2 IC 3 CA 3046

7 10

R26 2.7K

C7 22

R29 47

R23 10K

C8 .01

R32 680K

R35 100

R33 100 — 2

1/2 IC 3 CA3046

5

R37 47

3 13 4

R34 13K

2N5134 — Q4

R31 10K

+5V 15

C12 .01

+5V

CLAMP

IC1 7404 — 14 — 2 — 7

+7

IC1 7404 — 5 — 6

R38 1.3K

C13 82pf

R39 5.6K — 5V

D1 IN3064

Z

I

Y

CAESAR J2

COMPUTER IMAGE	
NONE	
11/1/73	
R.K.P.	
INPUT AMP	CVS-134-2

IC 1
CA 3054

IC 4
CA 3046

R15 200
R2 200
R7 200
R13 200
R14 2K
R6 2K
R4 200

3.9K
1.3K
10K
5.1K
499
1.50K
0.1
1.50K
5.1K
499
2.49K
2.32K
2.49K
1%

LEVEL
+5V
+10V
DELAYED CAMERA VIDEO IN
Jumper

10pf
6.2K
5.1K
+5V

IC6 7402
IC5 7402
IC5 LS86
IC5 LS86
IC6 7402

BLANKING
INVERT
NORMAL
NORM/30HZ

R52 5 1/2W
C5 100/25V
+5V
TO PIN 14 OF IC 5 & IC 6

SELECT

R45 6.2K
C3 .01
100
+15V
R50 5 1/2W
R49 470
2N3904
R48 62
C4 1/12V
1.7V
KEY VIDEO OUT
-5V

OTHERWISE SPECIFIED.

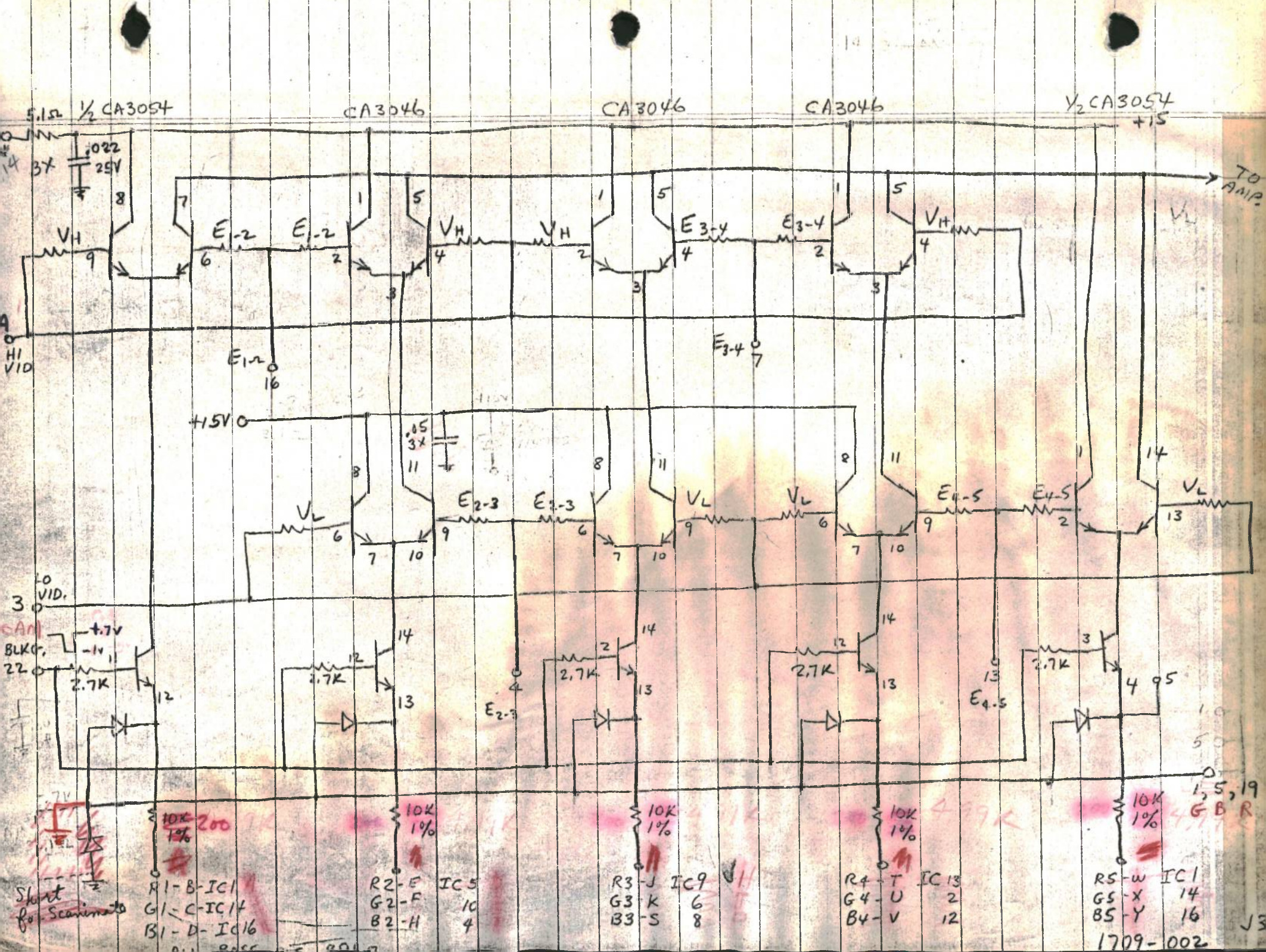
CAESAR J4

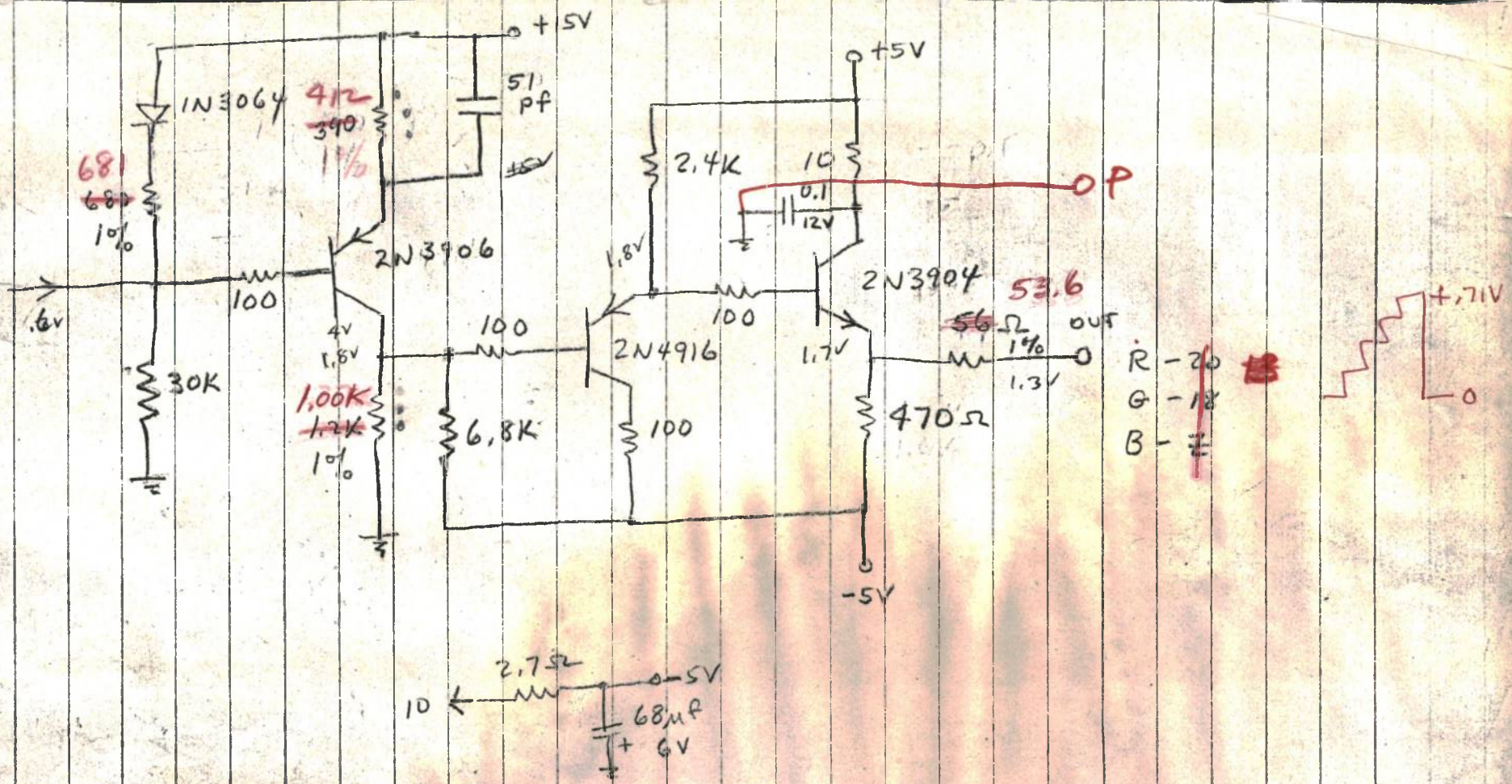
COMPUTER IMAGE

NONE	
11/10/73	
R.K.P.	

BACKGROUND COMPARATORS

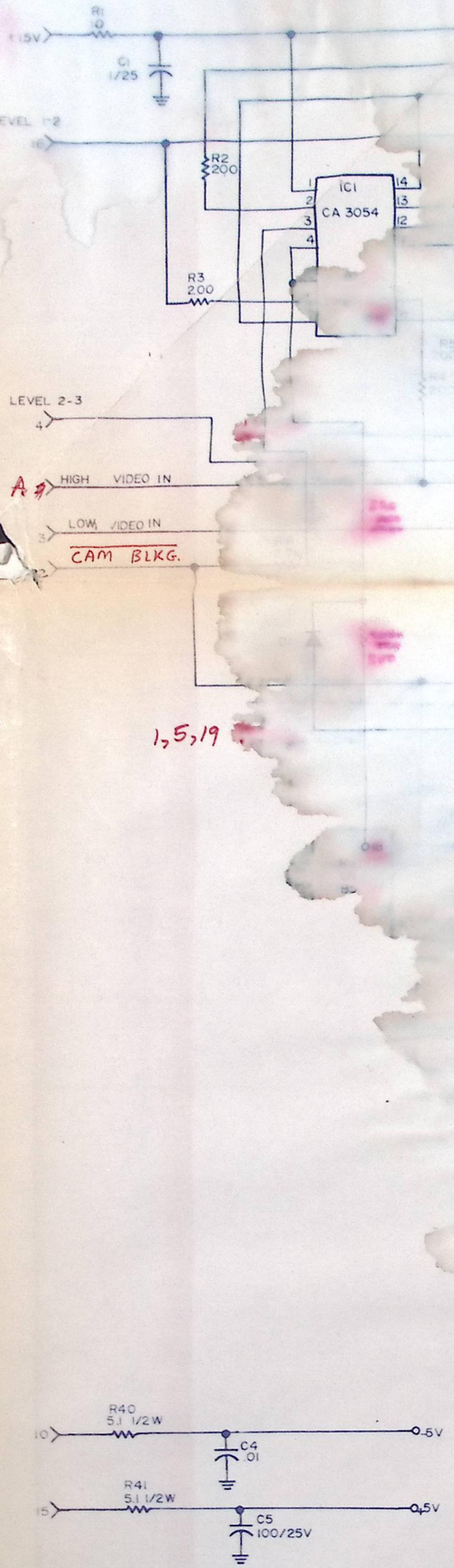
CVS-135

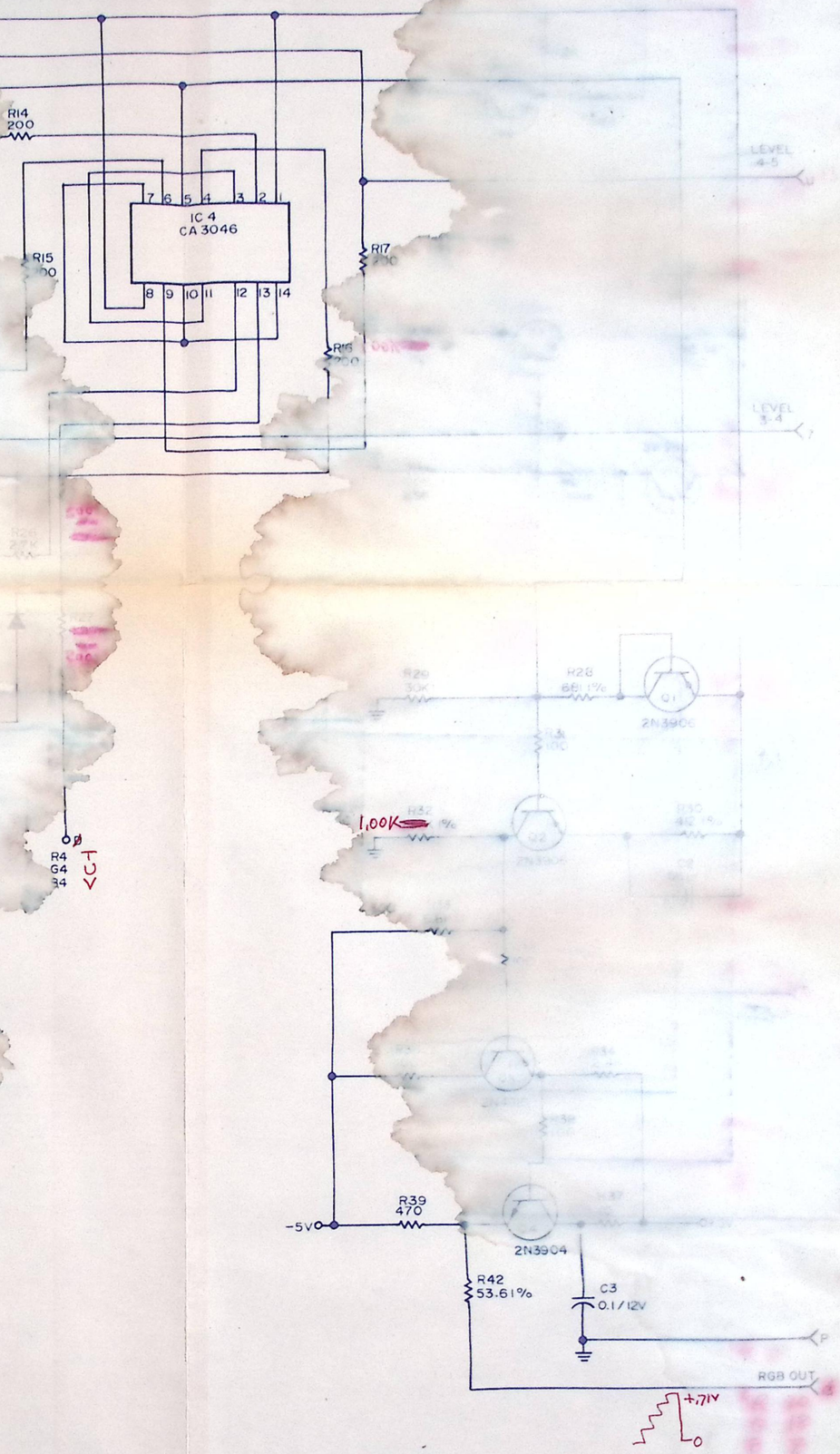

5.1Ω
1/2 CA3054
CA3046
CA3046
CA3046
1/2 CA3054
+15
.022
25V
3X
TO AMP.
VH
VL
E1-2
E3-4
E2-3
E4-5
HI VID
+15V
.05
3X
LO VID.
BLKG.
+.7V
-1V
2.7K
10K 1%
R1-B-IC1
G1-C-IC14
B1-D-IC16
R2-E IC5
G2-F 10
B2-H 4
R3-J IC9
G3-K 6
B3-S 8
R4-T IC13
G4-U 2
B4-V 12
R5-W IC1
G5-X 14
B5-Y 16
1709-002
Short for Scanimate
1,5,19
G B R



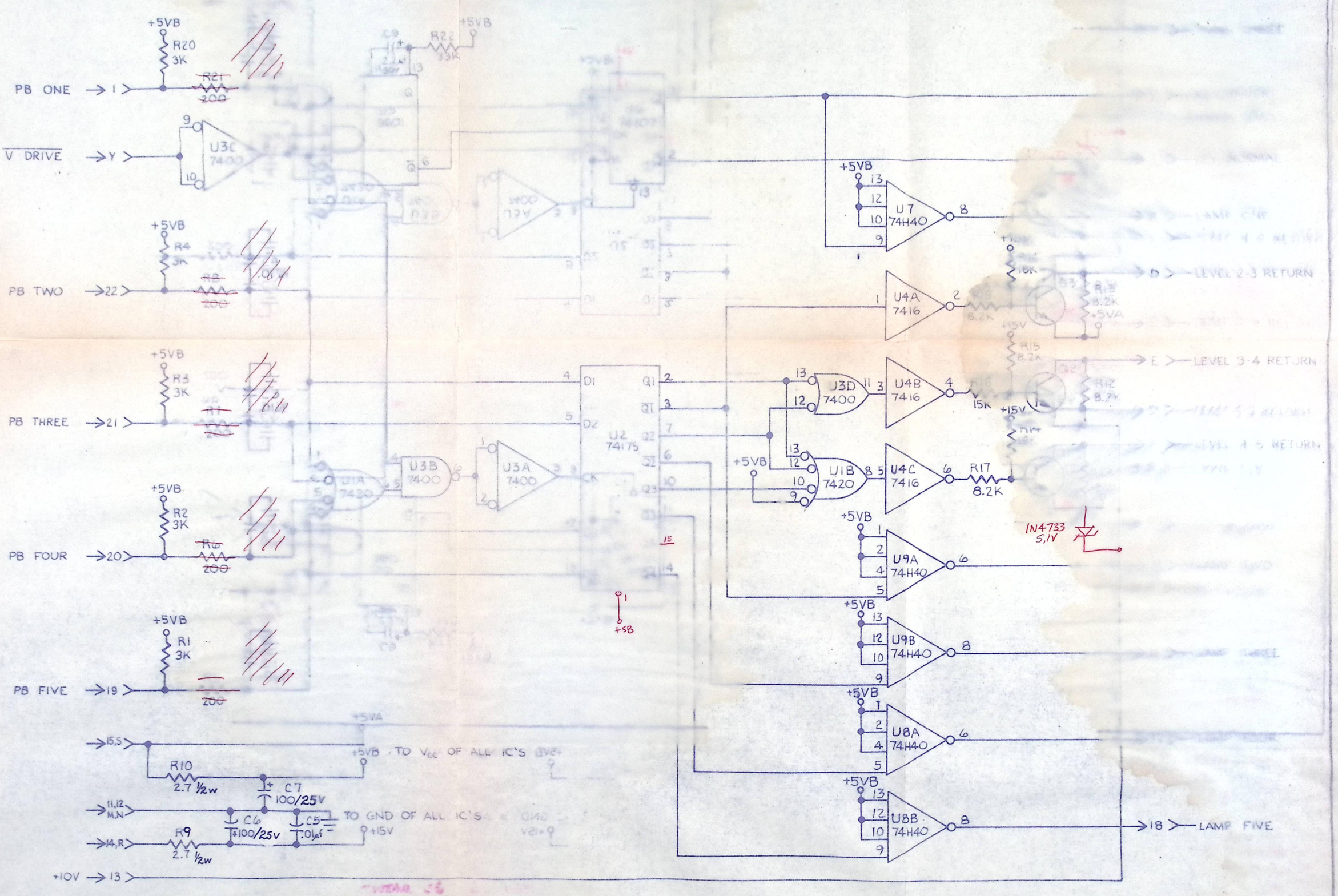
COLOR COMPARATORS
(3 CIRCUITS PER BOARD)

CAESAR J3





COMPUTER IMAGE	
SCALE NONE	REVISIONS
DATE 11/29/73	
DRAWN R.K.P. CHKD	
APVD	
TITLE COLOR COMPARATOR	NO ~~CVS-136~~



NOTES: ALL TRANSISTORS TO BE 2N3904

CAESAR

COMPUTER IMAGE CORPORATION	2475 W 2nd AVE DENVER, COLORADO 80223		
SCALE NONE	REVISIONS MODEL 1080 PAL	BY SD	DATE 7/28/80
DATE 5-2-80			
DR'N HPD CK'D			
APVD			
TITLE COLOR LEVEL SELECT		NO CVS-137	

A VIDEO IN
B VIDEO IN
KEY SIGNAL IN
FADER IN
CAM (B)
ENC (A)
CLAMP
CLAMP
A PHASE
B PHASE
A GAIN
B GAIN
CLAMP A ADJUST
CLAMP B ADJUST
BALANCE
U1 NE 592N
U2 NE 592N
U3 796
U4 NE 592N
U5A 324
U5B 324
U5D 324
A VID
B VID
A CNTRL
B CNTRL
CLAMP CKT Q3, Q4 R20 - R23 C18, C19
CLAMP CKT Q7, Q8 R37 - R40 C24, C25
CLAMP CKT Q13, Q14 R58 - R61 C33, C34
CLAMP CKT Q15, Q16 R77 - R80 C42, C43
CLAMP CKT 2N5134 2N4257
LS 244
PED. CCW 5K CW +5
D1 IN3064
D2 IN9638
2PF
6.49K
27K
2K SEL
SEL
SEL, 1%
10-40pf
4-20
10pf
.01
.1/50
22/15
.1/15
.1/20
.05/25
.2/50
.1/15
.1/16
.1/17
.1/18
.1/19
.1/21
.1/22
.1/23
.1/24
.1/25
.1/26
.1/27
.1/28
.1/29
.1/30
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.1/33
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.1/45
.1/46
.1/47
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.1/65
.1/66
.1/67
.1/68
.1/69
.1/70
.1/71
.1/72
.1/73
.1/74
.1/75
.1/76
.1/77
.1/78
.1/79
.1/80
.1/81
.1/82
.1/83
.1/84
.1/85
.1/86
.1/87
.1/88
.1/89
.1/90
.1/91
.1/92
.1/93
.1/94
.1/95
.1/96
.1/97
.1/98
.1/99
.1/100
.1/101
.1/102
.1/103
.1/104
.1/105
.1/106
.1/107
.1/108
.1/109
.1/110
.1/111
.1/112
.1/113
.1/114
.1/115
.1/116
.1/117
.1/118
.1/119
.1/120
.1/121
.1/122
.1/123
.1/124
.1/125
.1/126
.1/127
.1/128
.1/129
.1/130
.1/131
.1/132
.1/133
.1/134
.1/135
.1/136
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UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/4W, ±5%
ALL 1% RESISTORS ARE 1/8W
ALL CAPACITORS ARE IN MFD
ALL NPN TRANSISTORS ARE 2N3904
ALL PNP TRANSISTORS ARE 2N3906

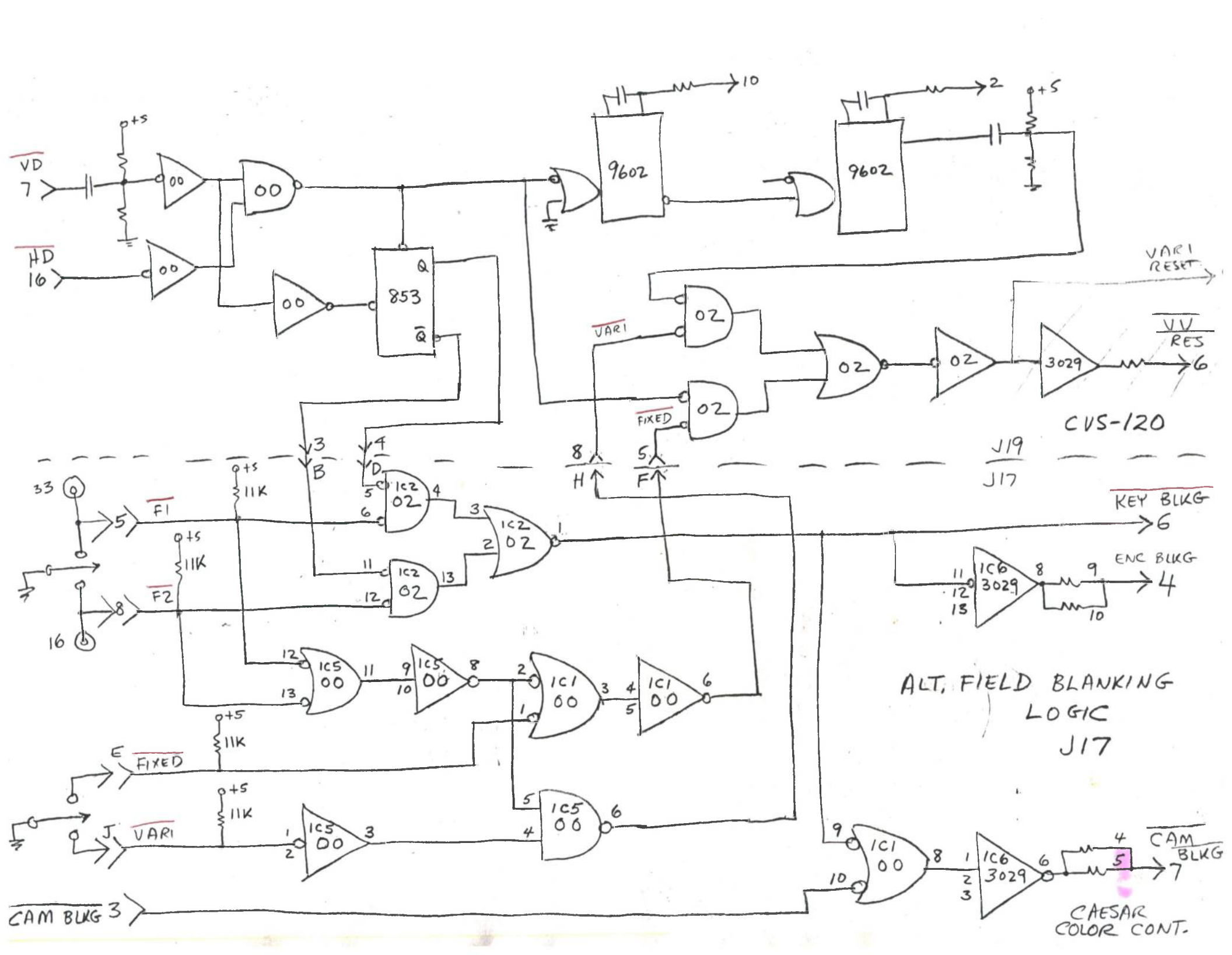
CAESAR J6

COMPUTER IMAGE CORPORATION
2475 W. 2nd AVE
DENVER, CO. 80223

SCALE NONE	REVISIONS	BY	DATE
DATE 8-25-81			
DR'N E.R. CK'D			
APVD			

TITLE: MIX EFFECT AMPLIFIER

NO CIC-9-4 Caesar ColorCaster 2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ENC BLKG
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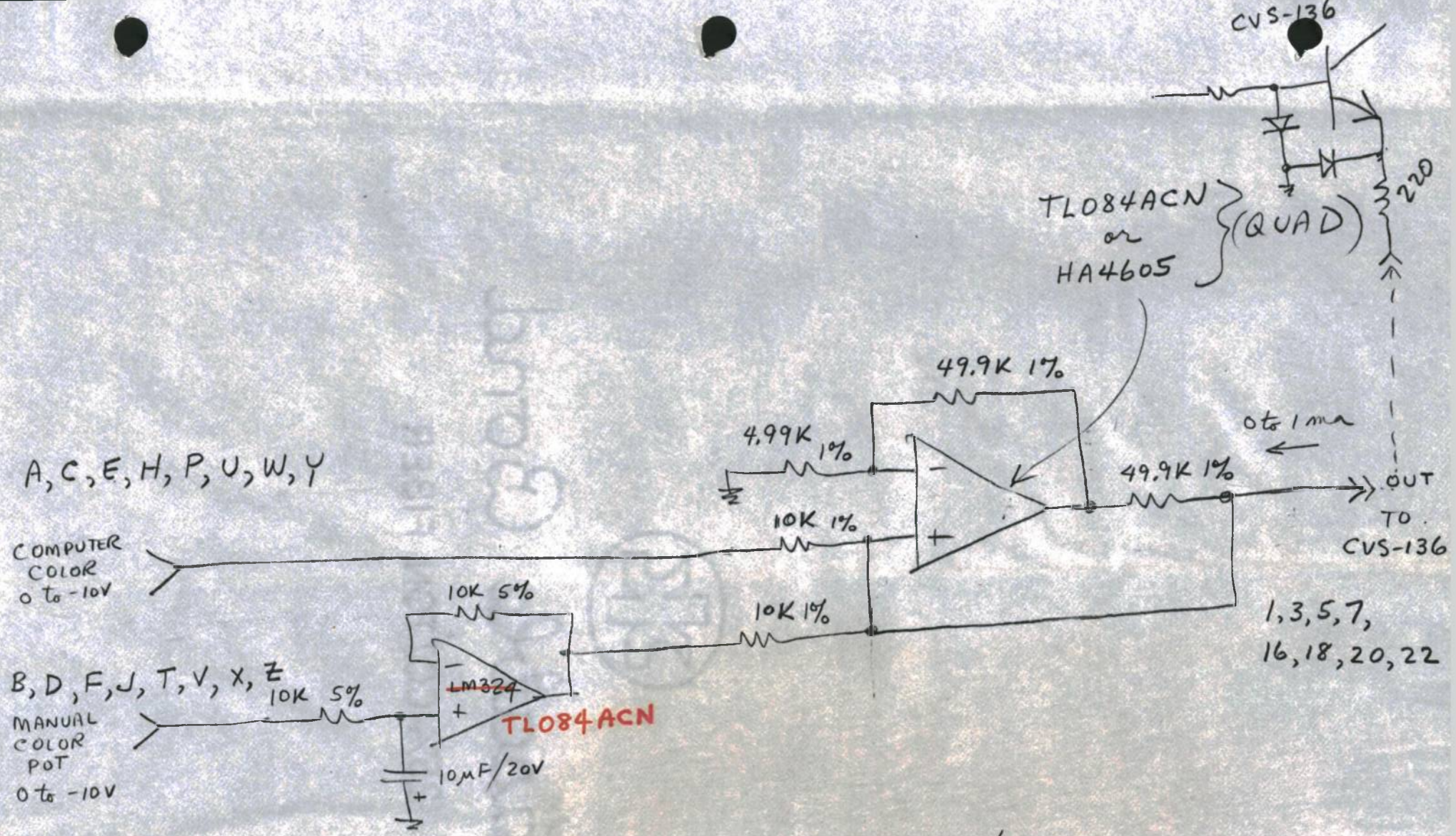
ALT. FIELD BLANKING
LOGIC
J17
CAESAR
COLOR CONT.

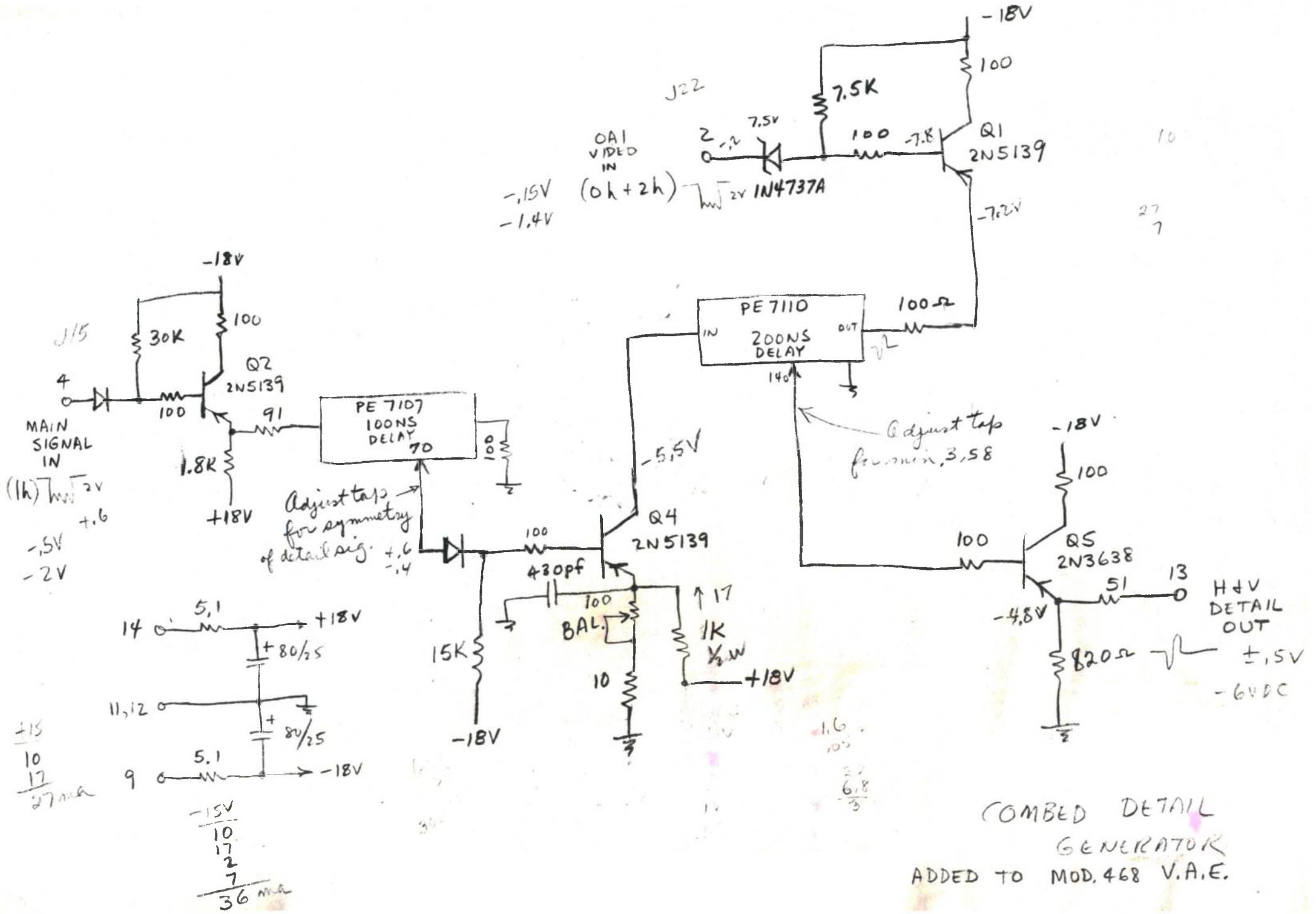


8 CIRCUITS /BD.

2 BD'S REQ'D

CAESAR

COLOR MIXER


-18V
100
7.5K
J22
7.5V
OA1
VIDEO
IN
(0h+2h)
2V
IN4737A
100
-7.8
Q1
2N5139
-7.2V
-.15V
-1.4V
PE 7110
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200NS
DELAY
OUT
100Ω
140
Q adjust tap
for min. 3.5S
-18V
J15
30K
100
Q2
2N5139
4
MAIN
SIGNAL
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(1h)
2V
+.6
-.5V
-2V
100
91
1.8K
+18V
PE 7107
100NS
DELAY
70
0
100
Adjust taps
for symmetry
of detail sig.
+.6
-.4
-5.5V
Q4
2N5139
100
430pf
100
BAL.
10
15K
-18V
↑17
1K
½W
+18V
100
Q5
2N3638
-18V
100
51
13
H&V
DETAIL
OUT
±.5V
-6VDC
-4.8V
820Ω
14
5.1
+18V
+80/25
11,12
+80/25
9
5.1
-18V
±15
10
17
27 ma
-15V
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2
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36 ma
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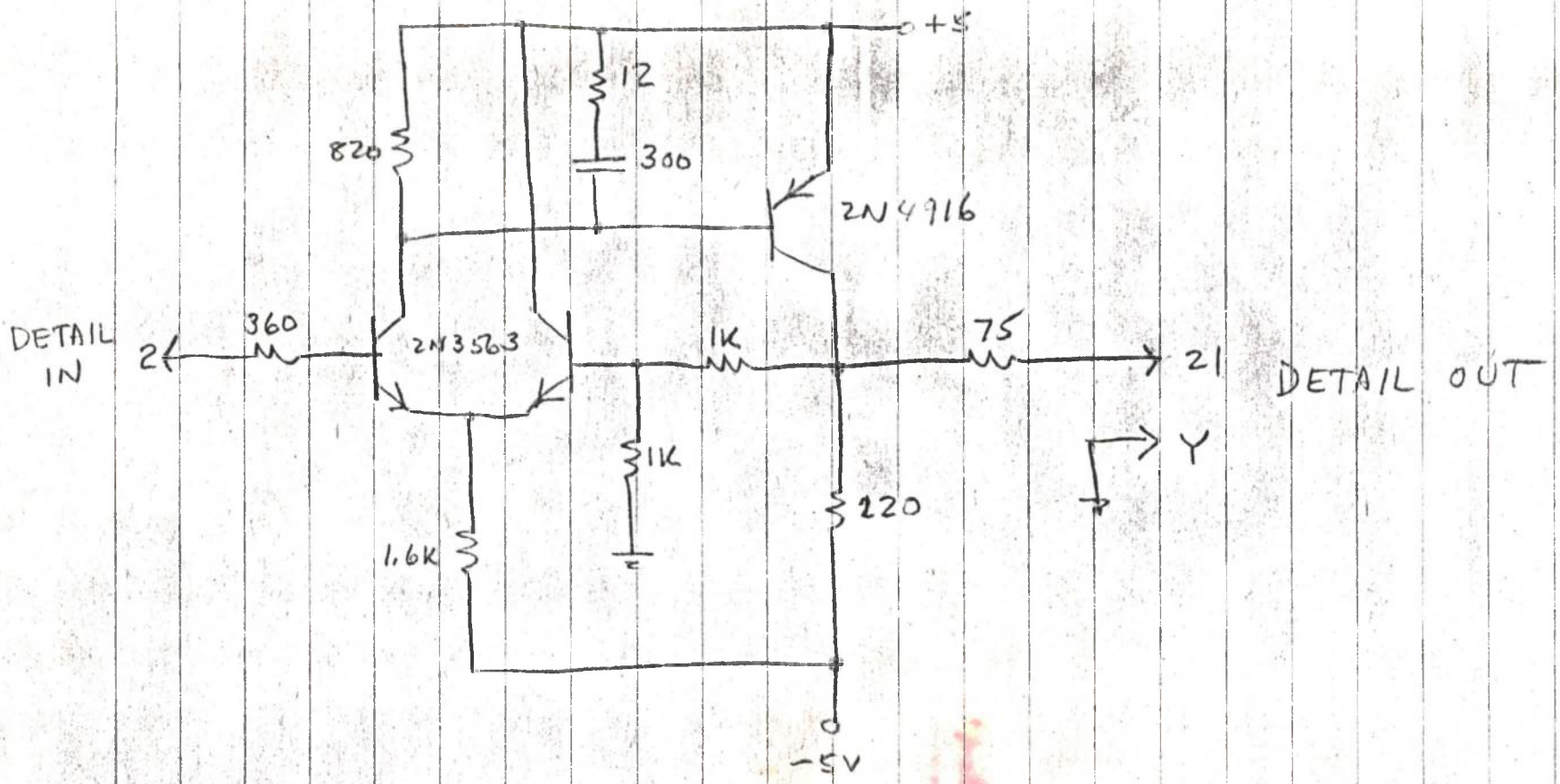
6.8
COMBED DETAIL
GENERATOR
ADDED TO MOD. 468 V.A.E.



DETAIL BUFFER
FOR EDGER

CAESAR J9

2-14-75

Edger Adjustments

Detail Gen. (in V.A.E.) Balance pot. Adjust for cancellation of non-detail signal at Detail output, with staircase input to V.A.E.

Detail Clipper + Delay CVS-118 (Caesar J11, ~~Scanimate J8~~)

Offset #2 pot. (lower) ~~Adjust for optimum clipping of unused (negative) polarity of detail signal at output (pin 17)~~ Adjust for blanking level of 0V at output of Detail Buffer

Offset #1 pot (upper) ~~(lower)~~ Adjust for baseline to be same level as blanking at ~~collector~~ output of Detail Buffer Q13 on Edger Card CVS-119 (Turn edger gain to min.)

B-W switch (Operating control) ~~DOWN~~ UP for white lines on black background, ~~UP~~ DOWN for black lines on white background (as seen on monitor before scan conversion)

Edger CVS-119 (Caesar J9, Scanimate J7)

Main Sig Gain pot. Adjust for unity gain from video in (pin 4) to video out (pin 21) with 75Ω termination on output.

Chroma Filter cap. (C4) near Q1,2 Adjust for min. subcarrier at Q2 emit.

CAESAR D/A's

	J100 REAR (8)			J100 FRONT (27)		
J1	A	overall X pos		B	overall Y pos	
2	D	X pos		E	Y pos	
3	C	X Depth		H	Size ϕ	
4	J	Coo ϕ		K	H Axis	
5	L	V Axis		M	H. Size	
6	N	V. Size		P	Intensity	
7	R	Blanking Start		S	Blanking Stop	
8	MM	W FG Depth		NN	WFG Vert	
9	PP	WFG Horiz		F	~~Spare~~ Y Depth	
10	R1	B	Gn-Bk	G1	C	Gy-R
11	B1	D	O-W	R2	E	O-R
12	G2	F	Bn-R	B2	H	R-Bn
13	R3	J	Be-R	G3	K	Be-W
14	B3	S	Y-O	R4	T	Bn-W
15	G4	U	V-Gy	B4	V	W-Gy
16	R5	W	Y-Gy	G5	X	V-Bn
17	B5	Y	O-V	Spare		

Some bits not working

~~this bd. bad~~